

marantz PM-35 – List Of Electrolytic Capacitors And Their Replacements

PS01 (CD direct, loudness... board)

On PCB			In schematic	Brand / Type	Replaced By			Comment
Ref. Design.	uF	V			Brand / Series	uF	V	
CS05	100	10	=	Elna / elco	Nichicon / FW	100	16	LED voltage smoothing

PE01 (tone board)

On PCB			In schematic	Brand / Type	Replaced By			Comment
Ref. Design.	uF	V			Brand / Series	uF	V	
CE05	0.47	10	=	Elna / bipolar	Wima / MKS2	0.47	50	bass/treble control
CE06	0.47	10	=	Elna / bipolar	Wima / MKS2	0.47	50	bass/treble control
CE09	10	16	=	Elna / elco	Elna / Silmic II RFS	10	35	bass/treble control
CE10	10	16	=	Elna / elco	Elna / Silmic II RFS	10	35	bass/treble control

P701 (main board (preamp, amp, supply, protection))

On PCB			In schematic	Brand / Type	Replaced By			Comment
Ref. Design.	uF	V			Brand / Series	uF	V	
C801	6800	42	=	Elna / elco	Nichicon / KG Gold Tune II	6800	63	main voltage filtering; snap-in
C802	6800	42	=	Elna / elco	Nichicon / KG Gold Tune II	6800	63	main voltage filtering; snap-in
C803	100	50	=	Elna / elco	Elna / Silmic II RFS	100	50	main voltage filtering
C804	100	50	=	Elna / elco	Elna / Silmic II RFS	100	50	main voltage filtering
C805	22	50	47/50	Elna / elco	Nichicon / FW	22	50	+5V rail filtering
C806	4.7	50	=	Elna / elco	Nichicon / FW	4.7	50	protection circuit IC voltage filtering
CN01	4.7	50	=	Elna / elco	Nichicon / Muse FG	4.7	50	protection circuit TR voltage filtering
CN02	47	10	=	Elna / elco	Nichicon / FW	47	25	protection circuit IC voltage filtering
CN04	47	10	=	Elna / elco	Nichicon / FW	47	25	protection circuit IC voltage filtering
C701	22	16	=	Elna / elco	Elna / Silmic II RFS	22	25	in signal path
C702	22	16	=	Elna / elco	Elna / Silmic II RFS	22	25	in signal path
C703	100	35	=	Elna / bipolar	Elna / RBD	100	50	in signal path
C704	100	35	=	Elna / bipolar	Elna / RBD	100	50	in signal path
C705	22	50	=	Elna / elco	Elna / Silmic II RFS	22	50	in signal path

C706	22	50	=	Elna / elco	Elna / Silmic II RFS	22	50	in signal path
C707	22	50	=	Elna / elco	Elna / Silmic II RFS	22	50	preamp IC circuit
C708	22	50	220/50	Elna / elco	Elna / Silmic II RFS	22	50	preamp IC circuit
C709	220	50	=	Elna / elco	Nichicon / Muse KZ	220	50	preamp IC circuit
C710	220	50	=	Elna / elco	Nichicon / Muse KZ	220	50	preamp IC circuit
C715	100	10	=	Elna / elco	Elna / Silmic II RFS	100	35	preamp TR circuit
C716	100	10	=	Elna / elco	Elna / Silmic II RFS	100	35	preamp TR circuit

PV01 (phono board)

On PCB			In schematic	Brand / Type	Replaced By			Comment
Ref. Design.	uF	V			Brand / Series	uF	V	
CV09	100	16	=	Elna / elco	Elna / Silmic II RFS	100	25	±14.4V circuit
CV10	100	16	=	Elna / elco	Elna / Silmic II RFS	100	25	±14.4V circuit
C409	51	10	=	Elna / elco				FET signal filtering; Not repl. (not found)
C410	51	10	=	Elna / elco				FET signal filtering; Not repl. (not found)
C413	510	10	=	Elna / elco				FET signal filtering; Not repl. (not found)
C414	510	10	=	Elna / elco				FET signal filtering; Not repl. (not found)
C423	22	16	=	Elna / elco	Elna / Silmic II RFS	22	25	FET signal filtering
C424	22	16	=	Elna / elco	Elna / Silmic II RFS	22	25	FET signal filtering
C427	470	16	=	Elna / elco	Elna / Silmic II RFS	470	16	-14.4V smoothing
C428	470	16	=	Elna / elco	Elna / Silmic II RFS	470	16	+7V smoothing

Nichicon Capacitors Classification (partial)

Large Aluminium Capacitors **KG** For audio

Small Aluminium Capacitors **KA** High grade for high grade equipment, 105 °C

KZ Premium grade, for audio

FG High grade, for audio

KG Standard grade, for audio

FW Standard grade, for audio

BP bipolar

Panasonic Capacitors Classification (partial)

FR Low imp.; upgrade; same as FM

FM Low imp. (40-70% less than FC)

FK Low imp. (20-30% less than FC)

FC Low impedance

WIMA Capacitors (partial)

MKS Metallized Polyester (PET)

MKP Metallized Polypropylene (PP)

ELNA Capacitors Classification (partial)

Large Aluminium Capacitors **LAO** For audio

Small Aluminium Capacitors **RFS** Silmic II

ROS Silmic

ROA Cerafine

ROB TONEREX

RBD bipolar

Other (Optional) Replacements

P701 (main board)								
On PCB			In schematic	Brand / Type	Replaced By			Comment
Ref. Design.	A	V			Brand / Series	A	V	
D801	4 / 2.6	200	S4VB20	Shindengen Electric / Bridge Diode	Onsemi or Vishay / Ultrafast Rectifier BYW29-200	8	200	4 pcs TO-220 package diodes instead bridge rectifier; heatsink not needed
D802	1	200	DS135D	Sanyo / Power diode	Fairchild, Microsemi or Vishay / Ultrafast power diode UF4004	1	400	Also: UF4003 (1A/200V)

